United States Department of Agriculture

Agricultural Marketing Service

Plant Variety Protection Office Official Journal

Volume 15, No.4
October—December
1987

PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal, published quarterly, is available from:

Plant Variety Protection Office
Agricultural Marketing Service
U.S. Department of Agriculture
National Agricultural Library Bldg., Rm. 500
Beltsville, Maryland 20705

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APPLICATIONS RECEIVED
OCTOBER 1, 1987 TO DECEMBER 31, 1987

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."

APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
ALFALFA				
8800013	Sutter		10/30/87	Plant Genetics, Inc.
8800014	Madera		10/30/87	Plant Genetics, Inc.
8800015	Maricopa		10/30/87	Plant Genetics, Inc.
BARLEY				
8800041	Pennco	(3)	12/16/87	Pennsylvania Agricultural Experiment Station and USDA-ARS
BEAN, GARDEN				
8800011	Trueblue		10/22/87	Ferry-Morse Seed Company
8800019	Slenderella		11/09/87	Ferry-Morse Seed Company

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APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
BEAN, GARDEN				
8800025	Flatbush		11/30/87	Ferry-Morse Seed Company
8800042	Shore		12/16/87	Ferry-Morse Seed Company
BENTGRASS, CREEPING				
8800047	SR 1020		12/28/87	Seed Research of Oregon, Inc.
BERMUDAGRASS				
8800010	NuMex SAHARA	(3)	10/20/87	New Mexico Crop Improvement Association
BLUEGRASS, KENTUCKY				
8800006	Huntsville		10/02/87	Jacklin Seed Company
8800007	Liberty		10/02/87	Jacklin Seed Company

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APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
BLUESTEM, BIG				
8800020	Niagara	(2)	11/17/87	Guy W. McKee, W. Curtis Sharpe, John Oyler
CORN, FIELD				
8800001	PHK05		10/01/87	Pioneer Hi-Bred International, Inc.
8800002	PHR25		10/01/87	Pioneer Hi-Bred International, Inc.
8800003	PHV78		10/01/87	Pioneer Hi-Bred International, Inc.
8800028	740		12/10/87	Northrup King Co.
8800029	787		12/10/87	Northrup King Co.
8800030	790		12/10/87	Northrup King Co.

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CORN, FIELD				
8800031	793		12/10/87	Northrup King Co.
8800032	W8304		12/10/87	Northrup King Co.
8800035	PHK42		12/15/87	Pioneer Hi-Bred International, Inc.
8800036	PHK76		12/15/87	Pioneer Hi-Bred International, Inc.
8800037	PHN11		12/15/87	Pioneer Hi-Bred International, Inc.
8800038	PHT77		12/15/87	Pioneer Hi-Bred International, Inc.
8800039	PHV63		12/15/87	Pioneer Hi-Bred International, Inc.
8800040	PHW65		12/15/87	Pioneer Hi-Bred International, Inc.

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CORN, FIELD				
8800046	PHT55		12/23/87	Pioneer Hi-Bred International, Inc.
COTTON				
8800017	Germain's Acala GC-356	(3)	11/03/87	C. Harvey Campbell, jr.; H. P Anderson, III; Kenneth L. Puryear; David L. West
8800048	GSC 30		12/29/87	Agrigenetics Corp. dba GroAgri Seed Company
LETTUCE				
8800004	Telda		10/02/87	Royal Sluis
8800009	Winter King		10/14/87	Bruce Church, Inc.
8800021	Salverde		11/17/87	Ferry-Morse Seed Company

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LETTUCE				
8800022	LaJolla		11/27/87	Bruce Church, Inc.
8800023	Fanfare		11/30/87	Ferry-Morse Seed Company
8800026	Bella		12/07/87	Ferry-Morse Seed Company
8800027	Garnet		12/07/87	Ferry-Morse Seed Company
OAT				
8800049	Hercules	(3)	12/30/87	Pennsylvania Agricultural Experiment Station and USDA-ARS
ONION				
8800044	Granny-X		12/21/87	Nickerson-Zwaan

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ONION				
8800045	Everest		12/21/87	Nickerson-Zwaan
RYEGRASS, PERENNIAL				
8800024	Dasher II		11/30/87	Pickseed West, Inc.
SAFFLOWER				
8800016	C/W-4440		10/30/87	Cal/West Seeds
SOYBEAN				
8800008	Hartz 6385		10/13/87	Jacob Hartz Seed Company, Inc.
8800018	LS301		11/05/87	Iowa Agriculture and Home Economics Experiment Station

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APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
SOYBEAN				
8800043	A3935		12/18/87	Asgrow Seed Company
WHEAT, COMMON				
8800005	Coker 833		10/02/87	Coker's Pedigreed Seed Company
8800012	2375		10/29/87	Pioneer Hi-Bred International, Inc.
8800033	Norkan	(3)	12/15/87	Kansas Agricultural Experiment Station
8800034	Dodge	(3)	12/15/87	Kansas Agricultural Experiment Station

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CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM
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CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
ALFALFA				
8500006	GT-13R Plus	(2)	10/30/87	Nickerson American Plant Breeders, Inc.
	'GT-13R Plus' is most similar to 'AS 13R', but 'GT-13R Plus' is resistant to spotted alfalfa aphid whereas 'AS 13R' has low resistance.			
8700063	Nitro	(2)	10/30/87	Minnesota Agricultural Experiment Station and USDA-ARS
	'Nitro' is most similar to 'Moapa 69' in growth habit and nitrogen production. However, 'Nitro' is rated resistant to Phytophthora root rot and highly resistant to pea aphid, whereas 'Moapa 69' is susceptible to both.			
BEAN, FIELD				
8700153	Rocket		10/30/87	Asgrow Seed Company
	'Rocket' is most similar to 'Seafarer'; however, 'Rocket' is 2 to 6 days later than 'Seafarer' in maturity based on data from multiple locations and years.			
8700154	Albion		12/18/87	National Seed Development Organisation, Ltd.
	'Albion' is most similar to 'Seafarer'; however, 'Albion' has purple mottling in the mature pods whereas 'Seafarer' does not.			

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CORN, FIELD

8700031 Lp5 — 12/18/87 — Claeys Semences

'Lp5' is most similar to 'B73'; however, 'Lp5' plants are 47 cm shorter than 'B73' and have a more open tassel (28 vs 19 degree angle from the stalk).

COTTON

8700070 Coker 139 — (3) — 12/18/87 — Coker's Pedigreed Seed Company

'Coker 139' most closely resembles 'Coker 310'; however, 'Coker 139' has a higher micronaire (4.10 vs 3.76) than 'Coker 310'.

FESCUE, CHEWINGS

8700003 Victory — 10/30/87 — Pickseed West, Inc.

'Victory' most closely resembles 'Shadow'; however, 'Victory' heads 3 to 4 days later than 'Shadow'.

FESCUE, HARD

8700161 Serra — 10/30/87 — NPI Seed Inc., Oregon Division

'Serra' most closely resembles 'Scaldis'; however, 'Serra' is bright green [Royal Horticultural Society (RHS) Colour Chart 136B] whereas 'Scaldis' is gray-green (RHS Colour Chart 139C).

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FESCUE, RED				
8700028	Barcrown	(3)	10/30/87	Barenbrug Holland B.V.
	'Barcrown' most closely resembles 'Dawson'; however, 'Barcrown' heads 8 days later and is shorter (64 vs 72 mm) than 'Dawson'.			
FESCUE, TALL				
8700071	Barvetia	(3)	12/18/87	Barenbrug Holland B.V.
	'Barvetia' most closely resembles 'Rebel'; however, 'Barvetia' heads 4 days later than 'Rebel'.			
HAIR-GRASS, CRESTED				
8700072	Barkoel	(3)	12/18/87	Barenbrug Holland B.V.
	'Barkoel' is the first named variety of crested hair-grass, Koeleria cristata. 'Barkoel' is 4 cm shorter (43 vs 47 cm) than the wild type.			
OAT				
8300063	Porter	(3)	10/30/87	Purdue University Agricultural Experiment Station
	'Porter' is most similar to 'Stout' and 'Dal'; however, 'Porter' heads 5 days later than 'Stout' and is 10 cm taller than 'Stout'. 'Porter' has white lemmas and is more tolerant of the barley yellow dwarf virus than 'Dal'. 'Dal' has lemmas which are yellow to red.			

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OAT				
8600074	Proat	(3)	10/30/87	Minnesota Agricultural Experiment Station

'Proat' is most similar to 'Dal' except 'Proat' does not have stem rust resistance genes Pg-2 (race 7) and Pg-4 ("A" races) which are present in 'Dal'. 'Proat' has a higher test weight (35.3 vs 34.1 lb/bu) but lower groat oil content (6.1 vs 8.2%) than 'Dal'.

PEANUT				
8700093	Southern Runner	(3)	12/18/87	University of Florida Agricultural Experiment Station

'Southern Runner' is most like 'Florunner'; however, 'Southern Runner' matures 5-7 days later, has smaller seed (58 vs 64 g/100 seed), and has lighter testa color (tan vs pink) than 'Florunner'. 'Southern Runner' is moderately resistant to late leafspot whereas 'Florunner' is susceptible.

8700094	KH20		12/18/87	Kenneth E. Hughes

'KH20' most closely resembles 'Starr', 'Spanco', and 'Florunner'; however, 'KH20' has a profuse branching growth habit whereas 'Starr' and 'Spanco' have a sparse branching growth habit, and 'KH20' has a semi-erect growth habit whereas 'Florunner' has a runner growth habit.

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REED CANARYGRASS

8500081 Palaton — 12/18/87 — Research Seeds, Inc.
'Palaton' is most similar to 'Vantage'; however, 'Palaton' is lower in total alkaloid content and higher in palatability than 'Vantage'.

8600060 Venture — 12/18/87 — Research Seeds, Inc.
'Venture' is most similar to 'Palaton'; however, 'Venture' has a higher percentage of acid and neutral detergent fiber at the third cutting than 'Palaton' and the seed proteins of 'Venture' differ distinctly in structure from those of 'Palaton' when analyzed by acid urea polyacrylamide gel electrophoresis.

RICE

8700085 V4716 — 12/18/87 — Farms of Texas Company
'V4716' most closely resembles 'Mars', 'Nato', and 'Lemont'; however, 'V4716' is shorter in plant height than 'Mars' (98 vs 108 cm) and 'Nato' (94 vs 133 cm), and ripens 4-8 days earlier than 'Lemont'.

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RYEGRASS, PERENNIAL

8300059 All*Star — 10/30/87 — International Seeds Inc.

'All*Star' most closely resembles 'Pennant'; however 'All*Star' has more tillers (436 vs 353/100 cm sq) and a lower percentage of plants with coleoptile anthocyanin (11.4 vs 25.7%) than 'Pennant'.

8700064 Caliente — 10/30/87 — NPI Seed Inc., Oregon Division

'Caliente' most closely resembles 'Premier'; however, 'Caliente' exhibits superior tolerance to heat and drought stress (50 vs 0% recovery) compared to 'Premier'.

8700133 Regency — 10/30/87 — Pure-Seed Testing, Inc.

'Regency' is most similar to 'Citation'; however, 'Regency' matures 2 or more days later, is 4.6 cm taller (85.8 vs 81.2 cm), and has 3.3 cm longer flag leaves (19.6 vs 16.3 cm) than 'Citation'.

8700166 Commander — 12/18/87 — Pure-Seed Testing, Inc.

'Commander' is most similar to 'Citation II' and 'Omega II'; however, 'Commander' matures 2 days later than 'Omega II' and 6 days later than 'Citation II'. 'Commander' has a spike length of 1.1 cm or more longer than 'Citation II' and 'Omega II'.

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RYEGRASS, PERENNIAL

8700169 Fiesta II — 12/18/87 — Pickseed West, Inc.

'Fiesta II' most closely resembles 'Fiesta'; however, 'Fiesta II' heads 2 days earlier, is shorter in mature plant height (67 vs 78 cm), and has greater resistance to stem rust (moderately susceptible vs susceptible) than 'Fiesta'.

SAFFLOWER

8700117 S-553 — 12/18/87 — SeedTec International, Inc.

'S-553' most closely resembles 'Frio', 'S-400', and 'S-541'; however, 'S-553' is resistant to fusarium wilt whereas 'Frio' is susceptible. 'S-553' has orange flowers whereas 'S-400' has yellow flowers, and the seed color of 'S-553' is white with brown stripes whereas the seed color of 'S-541' is white with grey stripes.

8700118 S-555 — 12/18/87 — SeedTec International, Inc.

'S-555' is most similar to 'S-400' and 'S-541'; however, 'S-555' has cream-colored seed whereas 'S-541' and 'S-400' have white-colored seed. 'S-555' has yellow flowers at bloom and at drydown whereas 'S-541' has yellow flowers at bloom and orange flowers at drydown.

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CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
SAFFLOWER				
8700187	MT 3697	(*)	12/18/87	Montana Agricultural Experiment Station

'MT 3697' most closely resesmbles 'S-208'; however, 'MT 3697' is more resistant to Alternaria leafspot (2.8 vs 5.2 - 9=most susceptible) than 'S-208'.

SESAME

8500167 Sesaco 2A — 10/30/87 — Sesaco Corporation

'Sesaco 2A' most closely resembles 'Margo'; however, 'Sesaco 2A' forms no branches whereas 'Margo' does branch. The capsules of 'Sesaco 2A' are longer than those of 'Margo' (37 vs 29 mm).

8500168 Sesaco 3 — 10/30/87 — Sesaco Corporation

'Sesaco 3' most closely resembles 'Sesaco 7'; however, 'Sesaco 3' has more capsules per leaf axil (3 vs 1 capsules) and matures 5 days earlier than 'Sesaco 7'.

8500169 Sesaco 4 — 10/30/87 — Sesaco Corporation

'Sesaco 4' is most similar to 'Sesaco 7'; however, 'Sesaco 4' has black seed whereas 'Sesaco 7' has buff-colored seed.

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SESAME

8500170 Sesaco 7 — 10/30/87 — Sesaco Corporation

'Sesaco 7' most closely resembles 'Eva'; however, 'Sesaco 7' capsules are shatter-resistant whereas those of 'Eva' shatter. 'Sesaco 7' matures 8 days earlier (101 vs 109) than 'Eva'.

SOYBEAN

8700038 HS 321 — 12/18/87 — GROWMARK Inc.

'HS 321' most closely resembles 'Williams 79'; however, 'HS 321' plants are 13 cm taller than 'Williams 79'.

8700100 9091 — 10/30/87 — Pioneer Hi-Bred International, Inc.

'9091' is most similar to '9061'; however, '9091' has tan pods and is susceptible to race 1 of Phytophthora megasperma whereas '9061' has brown pods and is resistant to race 1 of Phytophthora megasperma.

8700101 9181 — 10/30/87 — Pioneer Hi-Bred International, Inc.

'9181' most closely resembles 'B152'; however, '9181' has a high seed coat peroxidase activity whereas 'B152' has a low seed coat peroxidase activity. '9181' also has larger seed size than 'B152' by more than 400 seeds per pound.

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SOYBEAN				
8700108	AP 3132		10/30/87	Nickerson American Plant Breeders, Inc.
	'AP 3132' is most similar to 'Pella'; however, 'AP 3132' has white flowers and gray pubescence whereas 'Pella' has purple flowers and tawny pubescence.			
8700109	AP 3773		12/18/87	Nickerson American Plant Breeders, Inc.
	'AP 3773' is most similar to 'Harper'; however, 'AP 3773' is resistant to races 1 and 2 of Phytophthora megasperma whereas 'Harper' is susceptible.			
8700111	S06-57		12/18/87	Northrup King Co.
	'S06-57' is most similar to 'Evans' and 'Ozzie'; however, 'S06-57' has purple flowers and is resistant to race 3 of Phytophthora megasperma, whereas 'Evans' has white flowers and 'Ozzie' is susceptible to race 3 of Phytophthora megasperma.			
8700112	S44-77		12/18/87	Northrup King Co.
	'S44-77' is most similar to 'Mitchell'; however, 'S44-77' is resistant to race 3 of Phytopththora megasperma whereas 'Mitchell' is susceptible.			

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SOYBEAN				
8700114	S33-45		12/18/87	Northrup King Co.
	'S33-45' is most similar to 'Harper'; however, 'S33-45' is resistant to races 1, 2, 3, and 7 of Phytophthora megasperma whereas 'Harper' is susceptible.			
WATERMELON				
8700078	Red-N-Sweet	(*)	12/18/87	Louisiana Agricultural Experiment Station
	'Red-N-Sweet' is most similar to 'Louisiana Queen', but 'Red-N-Sweet' has dark brown, mottled seed whereas 'Louisiana Queen' has white seed. 'Red-N-Sweet' also has more intense red flesh color (7.5 r hue 4/16 v 2.5 r hue 5/12, Munsell Color Chart).			

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APPLICATIONS AMENDED OCTOBER 1, 1987 TO DECEMBER 31, 1987

Information concerning the varieties below has been published previously in the Official Journal's list of "APPLICATIONS RECEIVED." During the examination process, the applicant requested this information to be amended as indicated below.

APPL. NO.	VARIETY	GEN. (*)	APPL. DATE	NAME OF APPLICANT
BARLEY				
8000083	Onda	(3)	03/31/80	Tainio Technology & Technique, Inc.
	Name of owner changed from Wilbur-Ellis Company to Tainio Technology & Technique, Inc.			
BEAN, GARDEN				
8700149	Champ		06/08/87	Gallatin Valley Seed Co.
	Variety name changed from 'Trophy' to 'Champ'.			
TOMATO				
8600032	MURRIETA II		12/02/85	Harris Moran Seed Company
	Variety with temporary designation <MOX 3097> named 'Murrieta II'.			

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CERTIFICATES AMENDED
OCTOBER 1, 1987 TO DECEMBER 31, 1987

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
BEAN, FIELD				
8700153	Rocket		10/30/87	Asgrow Seed Company
	Variety name changed from <XP-B185> to 'Rocket'.			
SUNFLOWER				
8300132	SS405B		01/27/84	Northrup King Co.
	Name of owner changed from Stauffer Chemical Co. to Northrup King Co.			

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APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE
OCTOBER 1, 1987 TO DECEMBER 31, 1987

Applications for the varieties listed below are no longer being considered for U.S. plant variety protection. Although propagation of these varieties is no longer prohibited by the U.S. Plant Variety Protection Act, varieties published in this list may possibly be protected under the Patent Act.

KIND	APPL. NO.	VARIETY
FESCUE, TALL	8400004	Brookston
PEA	8700054	Sela
SORGHUM	8700130	PH210
SOYBEAN	8500147	9541

< > Identifies temporary designations.

DESCRIPTION OF PUBLIC VARIETIES

In accordance with section 180.800 of the Plant Variety Protection Act, descriptions of "public varieties" voluntarily submitted on PVP objective description forms will be accepted for publication in the Official Journal. Publication of such descriptions in no way constitutes recognition of the variety as novel or entitles it to protection under the Plant Variety Protection Act.

The following are descriptions of varieties released in October 1987. The 2 cucumber varieties were developed and released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, North Carolina, and the Wisconsin Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin. The 4 field corn varieties were released cooperatively by the USDA, ARS, and the North Carolina Agricultural Research Service.

The "PV Number" assigned to each variety should not be construed as meaning the variety is protected under the PVP Act; it is merely the accession number of that variety in the Office's databases of cucumber and corn variety descriptions.

Requests for seed samples and further information about these cultivars should be directed to Dr. William H. Johnson, Assistant Director, North Carolina Agricultural Research Service, P. O. Box 7601, Raleigh, NC 27695-7601.

VOLUNTARY CUCUMBER DESCRIPTION

Variety Name: 'Gy 4' PV Number: 8710043

'Gy 4' is an inbred developed from the cross of 'Gy 14' with '19D4'. ('19D4' originated from the cross of 'Double Yield', SC 22, and SC 19B). The resulting progeny were selected for yield, gynoecy, disease resistance, and other horticultural characteristics while self-pollinating for 13 generations. 'Gy 4' has good combining ability for yield, making the hybrid 'Raleigh' when crossed to 'M 21'. 'Gy 4' was released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, N. C. and by the Wisconsin Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin, in October 1987.

Breeders: T.C. Wehner, N.Car. ARS, and R.L. Lower, Wis. AES

Variety Name	'Gy 4'		
Type	Pickling	Fruit Shape	Not necked
Culture	Outdoor	Mid X-Section	Triangular
Adapted	Southern U.S.A.	Fruit Skin	Thin, tender
Maturity	45 Days to harvest; 7 days before 'National Pickling'	Fruit Ribbing	None
		Fruit Luster	Dull
Plant Habit	Vine	Spine Color	White
Plant Growth	Indeterminate	Spine Number	Few
Plant Sex	100% gynoecious	Spine Texture	Coarse
Flower color	Yellow	Fruit Warts	Many, large
Main Stem	165 cm long	Fruit Flavor	Bitter
	Grooved, ridged	Fruit at Seed Harvest Stage:	
Internodes	7 cm long	Fruit Size	17 cm long
Leaf Blade	110 mm long		6 cm dia.
	170 mm wide	Fruit Color	Cream, not striped
Leaf Petiole	16 cm long		
Fruit at Fresh	Market Stage:	Fruit Surface	Smooth
Fruit Size	15 cm long	Fruit Netting	Slight
	5 cm diameter	Fruit Set	With seeds
	180 g weight	No. Seeds/Fruit	150
Fruit Color	Medium green with yellow mottling & stripes	Seed Weight	28 g/1000

Plant Diseases: Resistant to Angular Leaf Spot, Anthracnose (races 1 & 2), Cucumber Scab, Powdery Mildew, Downy Mildew, Cucumber Mosaic Virus, and Fusarium Wilt.

VOLUNTARY CUCUMBER DESCRIPTION

Variety Name: 'Gy 5' PV Number: 8710044

'Gy 5' is an inbred developed from the cross of 'Gy 3' with 'P 59'. After crossing with 'SC 791', the resulting progeny were selected for yield, gynoecy, disease resistance, and other horticultural characteristics while self-pollinating for 8 generations. 'Gy 5' makes the hybrid 'Johnston' when crossed to 'M 21'. 'Gy 5' was released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, N. C. and by the Wisconsin Agricultural Experiment Station, University of Wisconsin, Madison, Wisconsin, in October 1987.

Breeders: T.C. Wehner, N.Car. ARS, and R.L. Lower, Wis. AES

Variety Name	'Gy 5'	Fruit Shape	Ends Blunt,
Type	Pickling		Not necked
Culture	Outdoor	Mid X-Section	Triangular
Adapted	Southern U.S.A.	Fruit Skin	Thin, soft
Maturity	45 Days to harvest; 7 days	Fruit Ribbing	None
	before 'National Pickling'	Fruit Luster	Dull
Plant Habit	Vine	Spine Color	White
Plant Growth	Indeterminate	Spine Number	Few
Plant Sex	100% gynoecious	Ribbing	None
Flower color	Yellow	Fruit Warts	Many, large
Main Stem	130 cm long	Fruit Flavor	Bitter
	Grooved, ridged	Fruit at Seed Harvest Stage:	
Internodes	8 cm long	Fruit Size	17 cm long
Leaf Blade	105 mm long		6 cm dia.
	135 mm wide	Fruit Color	Cream, not
Leaf Petiole	13 cm long		striped
Fruit at Fresh	Market Stage:	Fruit Surface	Smooth
Fruit Size	15 cm long	Fruit Netting	Slight
	5 cm diameter	Fruit Set	With Seeds
	185 g weight	No. Seeds/Fruit	160
Fruit Color	Medium green with yellow	Seed Weight	28 g/1000
	mottling & stripes		

Plant Diseases: Resistant to Angular Leaf Spot, Anthracnose (races 1 & 2), Cucumber Scab, Powdery Mildew, Downy Mildew, Cucumber Mosaic Virus, and Fusarium Wilt.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC266' PV Number: 8710447

'NC266' was derived from 3387-2(82), an S4 line from 'B73' x 'NC250'. It was tested in Florida in 1985-86 for resistance to Southern Leaf Blight and in North Carolina for resistance to Gray Leaf Spot in 1985. Yield trials were conducted in 1984-86 in North Carolina. 'NC266' was released cooperatively by the USDA, ARS and the North Carolina ARS in October 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)
Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Fresh Ear Length	10 cm
Adapted Area	SE USA	Fresh Ear Diameter	29 mm
Chromosome No.	Diploid	Fresh Ear Weight	32 g
Days to Mid Silk	72	No. Kernel Rows/Ear	12
Heat Units to Mid Silk	1659	Row Distinctness	Distinct
Plant Height	172 cm	Row Straightness	Straight
Ear Height	68 cm	Exposed Silk Color	Green
Internode Lgth	8 cm	Fresh Husk Color	Light Green
Tillers/Plant	None	Dry Husk Color	Buff
Ears/Plant	Strong 2	Husk Extension beyond Ear	8-10 cm
Cytoplasm Type	Normal	Husk Leaf Length	>15 cm
Leaf Color	Medium green	Ear Shank Length	8 cm
Leaf Angle	<30 degrees	No. Shank Internodes	8
Leaf Sheath Pubescence	Light	Dry Ear Position	Upright
Leaf Marginal Waves	Few	Ear Taper	Average
Leaf Creases	None	Ear Drying Time	Average
Leaf Width	8 cm	Dry Kernel Length	9 mm
Leaf Length	76 cm	Dry Kernel Width	6 mm
Lf. No./Plant	17	Dry Kernel Thickness	5 mm
Tassel Branch No./Plant	10	Kernel Shape Grade	<20% Rounds
Tassel Branch Angle	>45 Degrees	Pericarp Color	Colorless
Peduncle Lgth	9 cm	Aleurone Color	Tan
Pollen Shed	Medium	Endosperm Color	Yellow
Anther Color	Purple	Endosperm Type	Normal Starch
Glume Color	Green	Seed Weight	22 g/100
		Cob Midpoint Dia.	24 mm
		Cob Strength	Strong
		Cob Color	Pink

Plant Diseases: Resistant to Southern Leaf Blight, Common Smut, and Gray Leaf Spot.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC268' PV Number: 8710448

'NC268' was derived from 2073-1(83), an S5 line from 'B73' x 'NC250'. It was tested in Florida in 1985-86 for resistance to Southern Leaf Blight and in North Carolina in 1985 for resistance to Gray Leaf Spot. Yield trials were conducted in 1984-86 in North Carolina. 'NC268' was released cooperatively by the USDA, ARS and the North Carolina ARS in October 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)
Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Fresh Ear Length	15 cm
Adapted Area	SE USA	Fresh Ear Diameter	35 mm
Chromosome No.	Diploid	Fresh Ear Weight	61 g
Days to Mid Silk	72	No. Kernel Rows/Ear	12
Heat Units to Mid Silk	1664	Row Distinctness	Distinct
Plant Height	203 cm	Row Straightness	Straight
Ear Height	68 cm	Exposed Silk Color	Green
Internode Lgth	------	Fresh Husk Color	Light Green
Tillers/Plant	None	Dry Husk Color	Buff
Ears/Plant	Slight 2	Husk Extension beyond Ear	Barely
Cytoplasm Type	Normal	Husk Leaf Length	>15 cm
Leaf Color	Medium green	Ear Shank Length	10 cm
Leaf Angle	30-60 degrees	No. Shank Internodes	11
Leaf Sheath Pubescence	------	Dry Ear Position	Upright
		Ear Taper	Slight
Leaf Marginal Waves	Few	Ear Drying Time	Average
		Dry Kernel Length	10 mm
Leaf Creases	------	Dry Kernel Width	8 mm
Leaf Width	9 cm	Dry Kernel thickness	4 mm
Leaf Length	69 cm	Kernel Shape Grade	<20% Rounds
Lf. No./Plant	17	Pericarp Color	Colorless
Tassel Branch No./Plant	8	Aleurone Color	White
		Endosperm Color	Yellow
Tassel Branch Angle	30-40 Degrees	Endosperm Type	Normal Starch
		Seed Weight	18 g/100
Peduncle Lgth	22 cm	Cob Midpoint Dia.	19 mm
Pollen Shed	Medium	Cob Strength	Strong
Anther Color	Pink	Cob Color	Pink
Glume Color	Green		

Plant Diseases: Resistant to Southern Leaf Blight, Common Smut, and Gray Leaf Spot.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC270' PV Number: 8710449

'NC270' was derived from 2056-1(83), an S6 line from 'B73' x 'NC250'. It was tested in Florida in 1985-86 for resistance to Southern Leaf Blight and in North Carolina in 1985 for resistance to Gray Leaf Spot. Yield trials were conducted in 1984-86 in North Carolina. 'NC270' was released cooperatively by the USDA, ARS and the North Carolina ARS in October 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)
Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Flint	Fresh Ear Length	14 cm
Adapted Area	SE USA	Fresh Ear Diameter	40 mm
Chromosome No.	Diploid	Fresh Ear Weight	52 g
Days to Mid Silk	71	No. Kernel Rows/Ear	14
Heat Units to Mid Silk	1614	Row Distinctness	Distinct
Plant Height	165 cm	Row Straightness	Straight
Ear Height	60 cm	Exposed Silk Color	Green
Internode Lgth	9 cm	Fresh Husk Color	Dark Green
Tillers/Plant	None	Dry Husk Color	Buff
Ears/Plant	One	Husk Extension beyond Ear	8-10 cm
Cytoplasm Type	Normal	Husk Leaf Length	>15 cm
Leaf Color	Medium green	Ear Shank Length	11 cm
Leaf Angle	30-60 degrees	No. Shank Internodes	7
Leaf Sheath Pubescence	Light	Dry Ear Position	Upright
		Ear Taper	Slight
Leaf Marginal Waves	None	Ear Drying Time	Average
		Dry Kernel Length	9 mm
Leaf Creases	None	Dry Kernel Width	6 mm
Leaf Width	6 cm	Dry Kernel Thickness	3 mm
Leaf Length	60 cm	Kernel Shape Grade	<20% Rounds
Lf. No./Plant	12	Pericarp Color	Colorless
Tassel Branch No./Plant	7	Aleurone Color	Brown
		Endosperm Color	Pale Yellow
Tassel Branch Angle	<30 degrees	Endosperm Type	Normal Starch
		Seed Weight	18 g/100
Peduncle Lgth	6 cm	Cob Midpoint Dia.	27 mm
Pollen Shed	Medium	Cob Strength	Strong
Anther Color	Purple	Cob Color	Red
Glume Color	Green		

Plant Diseases: Resistant to Southern Leaf Blight, Common Smut, and Gray Leaf Spot.

VOLUNTARY FIELD CORN DESCRIPTION

Variety Name: 'NC272' PV Number: 8710450

'NC272' was derived from 2177-1(83), an S5 line developed by backcrossing an early B73 line, 'B73G' twice to ETO 'Blanco'. ETO 'Blanco' is a broad-based synthetic of mostly Caribbean origin. 'NC272' was released cooperatively by the USDA, ARS and the North Carolina ARS in October, 1987.

Breeders: Dr. Donald L. Thompson (USDA/Retired)
Dr. M. M. Goodman (NCSU Professor, Crop Science)

Kernel Type	Dent	Fresh Ear Length	12 cm
Adapted Area	SE USA	Fresh Ear Diameter	43 mm
Chromosome No.	Diploid	Fresh Ear Weight	89 g
Days to Mid Silk	73	No. Kernel Rows/Ear	18
Heat Units to Mid Silk	1714	Row Distinctness	Distinct
Plant Height	173 cm	Row Straightness	Straight
Ear Height	63 cm	Exposed Silk Color	Green
Internode Lgth	11 cm	Fresh Husk Color	Light Green
Tillers/Plant	None	Dry Husk Color	Buff
Ears/Plant	Slight 2	Husk Extension beyond Ear	Barely
Cytoplasm Type	Normal	Husk Leaf Length	>15 cm
Leaf Color	Light green	Ear Shank Length	8 cm
Leaf Angle	30-60 degrees	No. Shank Internodes	11
Leaf Sheath Pubescence	------	Dry Ear Position	Upright
Leaf Marginal Waves	None	Ear Taper	Slight
Leaf Creases	------	Ear Drying Time	Average
Leaf Width	8 cm	Dry Kernel Length	11 mm
Leaf Length	76 cm	Dry Kernel Width	6 mm
Lf. No./Plant	15	Dry Kernel thickness	4 mm
Tassel Branch No./Plant	7	Kernel Shape Grade	<20% Rounds
Tassel Branch Angle	30-40 Degrees	Pericarp Color	Colorless
Peduncle Lgth	6 cm	Aleurone Color	White
Pollen Shed	Medium	Endosperm Color	Yellow
Anther Color	------	Endosperm Type	Normal Starch
Glume Color	------	Seed Weight	20 g/100
		Cob Midpoint Dia.	26 mm
		Cob Strength	Weak
		Cob Color	Red

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